

## Highlands P-TECH: Work-Based Learning Plan 2021-2022

*Current as of 5/17/2021*

Year 1 - Grade 9		
Activity and Goal	Industry Partner/Session Leader	Resources/Platforms
<b>College &amp; Career Exploration</b> - Students will complete the 'Set Future Path' activities on Schoolinks to begin picturing their future.	Work-Based Learning Specialist, P-TECH Support Teacher, College-Bound Advisors	<a href="#">Schoolinks</a>
<b>Safety &amp; Responsibility</b> - Students will complete basic safety lessons and will develop and implement their own daily safety commitment.	TX-FAME/Toyota, Work-Based Learning Specialist	TX-FAME/Toyota Core Exercises
<b>Guest Speakers</b> - Students will hear from several guest speakers and role models to understand careers in STEM related to their P-TECH pathway.	Nepris TX STEM Connections  Alumni & Industry Speaker Series: HEB, Joyson Safety, Tower Semiconductor	<a href="#">Nepris</a>  Zoom or In-Person
<b>Online Portfolio</b> - Students will create their online portfolio to be completed throughout all 4 years of P-TECH.	Work-Based Learning Specialist, P-TECH Support Teacher, AVID Teacher(s)	<a href="#">Schoolinks</a>  <a href="#">Bulb</a>
<b>Field Trips/Job Shadows</b> - Students will complete at least 1 field trip or job shadow activity.	SA Works, TX-FAME, Work-Based Learning Specialist	Virtual examples: <a href="https://www.creatorswanted.org/">https://www.creatorswanted.org/</a>  <a href="#">SA Works Manufacturing Videos</a>  In-person if possible
<b>College Research &amp; Readiness</b> - College research activities and academic readiness including SAT/ACT and TSIA2 awareness and preparation	AVID Teacher(s), P-TECH Support Teacher	<a href="#">Schoolinks</a> <a href="#">TSIA2</a> <a href="#">College Board</a>

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### Work-Based Learning Goals at a Glance

	9th	10th	11th	12th
<b>All P-TECH</b>	Summer bridge 1	Summer bridge 2 + PE	Summer bridge leader/ internship	Summer bridge leader/ internship
<i>-Career/College (AVID)</i>	Career explorer (Schoolinks) TSI test focus	College list (Schoolinks) PSAT test focus	Resume & interview prep ACT/SAT test focus	Job/internship apps & job fair College apps/scholarships
<i>-Responsibility</i>	Clock-in/Clock-out system (attendance) Service learning	Time management/calendars Service learning	Professionalism Job search/applications Service learning	Workplace requirements Financial skills Service learning
<i>-Communication &amp; Digital Skills (AVID)</i>	<b>Digital portfolio phase 1</b> Google suite Microsoft word/excel Email etiquette/introductions	<b>Digital portfolio phase 2</b> PDF tools Design & presentation skills	<b>Digital portfolio phase 3</b> Research skills Professional networking Senior capstone goals	<b>Digital portfolio phase 4</b> Senior capstone presentation
<i>-Safety</i>	Basic lab safety	Basic lab safety	OSHA modules/cert	Safety training leader
<i>-Problem Solving</i>	Teamwork strategies Self-evaluations	Project management Quality concepts/tools	Conflict resolution Program leadership	Program leadership and mentoring
<b>Aero (Aviation)</b>	Site visit (virtual or in person) Guest speakers <b>Shop basics, college habits</b>	Site visit or job shadows Guest speakers/mentors <b>FAA Exam prep</b>	Job shadows <b>FAA Exam prep</b>	Internships <b>FAA Exam prep and licensing</b>
<b>Engineering</b> <i>*Include Pilot/Drone/Aero Engineering</i>	Site visit (virtual or in person) Guest speakers/mentors <b>Engineering design cycle</b>	Site visit or job shadows Guest speakers/mentors <b>Drone program</b>	Job shadows <b>CAD certification(s)</b>	Internships/college prep <b>Senior design project</b>
<b>Manufacturing</b>	Site visit (virtual or in person) Guest speakers/mentors <b>AC/DC electronics</b>	Site visit or job shadows Guest speakers/mentors <b>Robotics/Motor Control</b>	Job shadows <b>Six sigma/quality control/Lean Manufacturing Pneumatics/Hydraulics</b>	Internships <b>PLCs/Troubleshooting</b>
<b>Welding</b>	Site visit (virtual or in person) Guest speakers <b>Blueprint reading</b>	Site visit or job shadows Guest speakers/mentors <b>Welding basics</b>	Job shadows <b>Welding intermediate</b>	Internships <b>Welding advanced</b>